

Date: Wednesday 11/18/2006 4:04:40 PM  
 User: Kim Johnston

## Process Sheet

|                                  |   |                         |                    |
|----------------------------------|---|-------------------------|--------------------|
| <b>Customer</b>                  | CU-DAR001 Dart Helicopters Services         | <b>Drawing Name</b>     | : BRACKET ASSEMBLY |
| <b>Job Number</b>                | 25556B                                      | <b>Part Number</b>      | : D3121143         |
| <b>Estimate Number</b>           | 10279                                       | <b>Drawing Number</b>   | : D3121 REV C2     |
| <b>P.O. Number</b>               | N/A   | <b>Project Number</b>   | : N/A              |
| <b>This Issue</b>                | : 1/18/2006                                 | <b>Drawing Revision</b> | : C2               |
| <b>Prsht Rev</b>                 | : NC  | <b>Material</b>         | : N/A              |
| <b>First Issue</b>               | : N/A                                       | <b>Due Date</b>         | : 2/15/2006        |
| <b>Previous Run</b>              | : 25455                                     | <b>Qty:</b>             | 4 Um: Each         |
| <b>Written By:</b>               | : <u>SEE COMMENT BELOW</u>                  |                         |                    |
| <b>Checked &amp; Approved By</b> | : <u>SEE ABOVE DATE &amp; USER</u>          |                         |                    |
| <b>Comment</b>                   | : Est Rev: Pick: A 04.02.18 New issue KJ/DS |                         |                    |

## Additional Product

Job Number:



|                |                              |                      |
|----------------|------------------------------|----------------------|
| <b>Seq. #:</b> | <b>Machine Or Operation:</b> | <b>Description :</b> |
|----------------|------------------------------|----------------------|

|     |                 |             |
|-----|-----------------|-------------|
| 1.0 | M174B1000X02000 | 17-4 SS Bar |
|-----|-----------------|-------------|



**Comment:** Qty.: 0.3864 f(s)/Unit Total : 1.5456 f(s)  
 Material: 17-4 SS Bar per AMS 5604/5643  
 (M17-4-B1.000x02.000)  
 Identify for D3121-113  
 Batch: M19712

SA 06.02.16

4

|     |          |          |
|-----|----------|----------|
| 2.0 | BAND SAW | BAND SAW |
|-----|----------|----------|



**Comment:** BAND SAW  
 Cut blanks: (1.000" x 2.000") 4.425" long

SA 06.02.16

4

|     |       |                                |
|-----|-------|--------------------------------|
| 3.0 | HAAS1 | HAAS CNC VERTICAL MACHINING #1 |
|-----|-------|--------------------------------|



**Comment:** HAAS CNC VERTICAL MACHINING #1

1-Machine D3121-113 as per Folio FA330 and Dwg D3121  
 Identify as D3121-113

2-Deburr

3-Scribe batch number

SA 06.02.16

4

|     |     |  |
|-----|-----|--|
| 4.0 | QC2 | INSPECT PARTS AS THEY COME OFF MACHINE |
|-----|-----|--|



**Comment:** INSPECT PARTS AS THEY COME OFF MACHINE

SA 06.02.16

4

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes ☒ No ☐ DQA: SD Date: 06/02/22  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

NOTE: Date & initial all entries

Date: Wednesday, 1/18/2006 4:04:40 PM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BRACKET ASSEMBLY

Job Number: 25556B

Part Number: D3121143

Job Number:



Seq. #:

Machine Or Operation:

Description :

5.0

QC8

SECOND CHECK



Comment: SECOND CHECK

36

06.02.17

4

6.0

D312121

Bolt



Comment: Qty.: 2.0000 Each(s)/Unit Total: 8.0000 Each(s)

Pick:

Qty Part Number

Description Batch

2 D3121-21

Bolt

B25454

7.0

D3121241

Bearing Assembly



Comment: Qty.: 2.0000 Each(s)/Unit Total: 8.0000 Each(s)

Pick:

Qty Part Number

Description Batch

2 D3121-241 Bearing Ass

B25561

SB

06/02/20

4

8.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

Assemble D3121-143 as per Dwg D3121.

SB

06/02/21

4

9.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

06.02.21

4

10.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: \_\_\_\_\_

57408

06/2/21 (4)

11.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

06/02/22

4

Job Completion



W 06.02.23

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

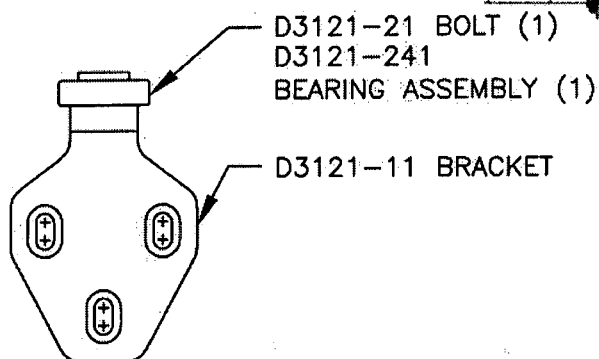
| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

NOTE: Date & initial all entries



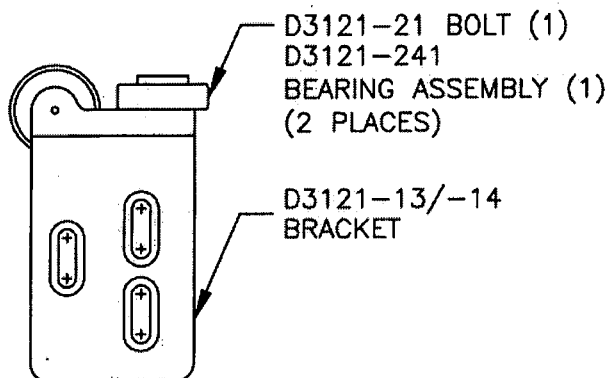
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| DESIGN<br>#      | DRAWN BY<br>CP | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA                   |                         |
| CHECKED<br>#     | APPROVED<br>#  | DRAWING NO.<br>D3121  | REV. C<br>SHEET 1 OF 10 |
| DATE<br>04.02.17 |                | TITLE<br>BRACKET ASSEMBLY   | SCALE<br>1:2            |
| A                | 02.04.15       | NEW ISSUE   |                         |
| B                | 03.01.16       | ADD RIDGES; ADD MAT'L PROP; FIX P/N<br>ADD -141/-143/-144/-145/-146 |                         |
| C                | 04.02.17       | ADD CLEARANCE; USE -241 BEARING                                     |                         |
| C1               | 04.03.26       | 3.97 WAS 4.00; 6.11 WAS 6.14  |                         |
| C2               | 04.04.26       | 0.230 WAS 0.238   |                         |

RELEASED  
04.03.01



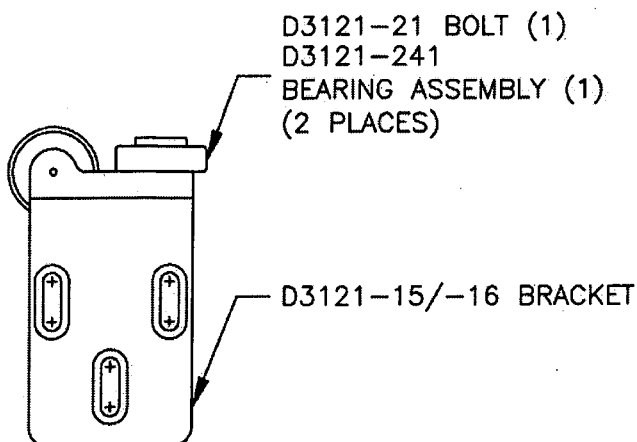
D3121-21 BOLT (1)  
D3121-241  
BEARING ASSEMBLY (1)

**D3121-041 BRACKET ASSEMBLY**  
(REPLACES PREMIER P/N B30-23000-33)



D3121-21 BOLT (1)  
D3121-241  
BEARING ASSEMBLY (1)  
(2 PLACES)

**D3121-043 (SHOWN) / D3121-044 (OPPOSITE)  
BRACKET ASSEMBLY**  
(REPLACES PREMIER P/N B30-23000-37/-38)



D3121-21 BOLT (1)  
D3121-241  
BEARING ASSEMBLY (1)  
(2 PLACES)

**D3121-045 (SHOWN) / D3121-046 (OPPOSITE)  
BRACKET ASSEMBLY**  
(REPLACES PREMIER P/N B30-23000-35/-36)

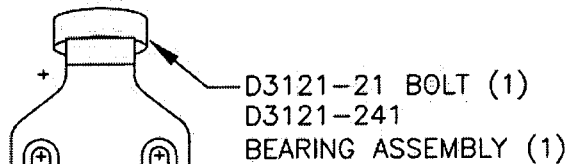
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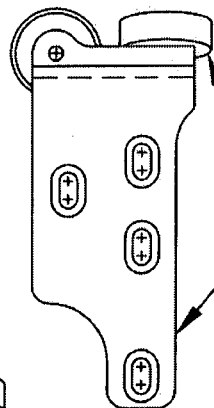
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| DATE<br>04.02.17 |                | TITLE<br>BRACKET ASSEMBLY                         | SCALE<br>1:2            |



D3121-21 BOLT (1)  
D3121-241  
BEARING ASSEMBLY (1)

D3121-111 BRACKET

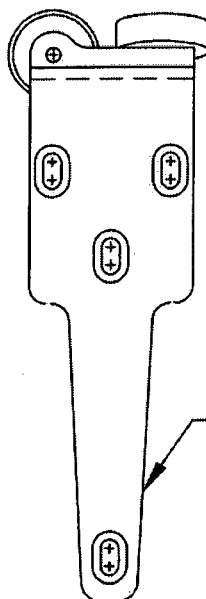
**D3121-141 BRACKET ASSEMBLY**  
(REPLACES PREMIER P/N B30-23001-01)



D3121-21 BOLT (1)  
D3121-241 BEARING ASSEMBLY (1)  
(2 PLACES)

D3121-113/-114 BRACKET

**D3121-143 (SHOWN) / D3121-144 (OPPOSITE)**  
**BRACKET ASSEMBLY**  
(REPLACES PREMIER P/N B30-23000-03/-04)



D3121-21 BOLT (1)  
D3121-241 BEARING ASSEMBLY (1)  
(2 PLACES)

D3121-115/-116  
BRACKET

**D3121-145 (SHOWN) / D3121-146 (OPPOSITE)**  
**BRACKET ASSEMBLY**  
(REPLACES PREMIER P/N B30-23000-05/-06)

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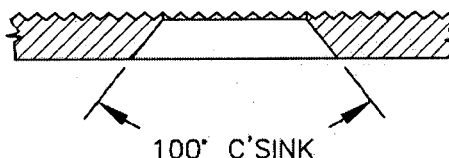
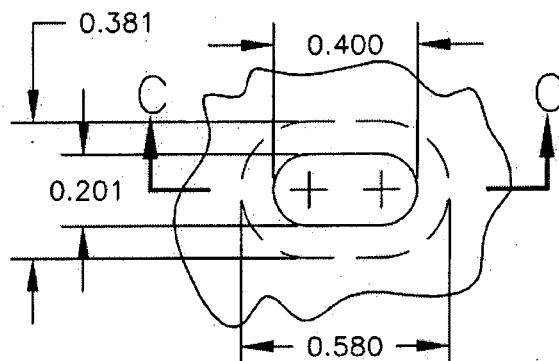
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| DATE<br>04.02.17 |                | TITLE<br>BRACKET ASSEMBLY                         | SCALE<br>1:1            |

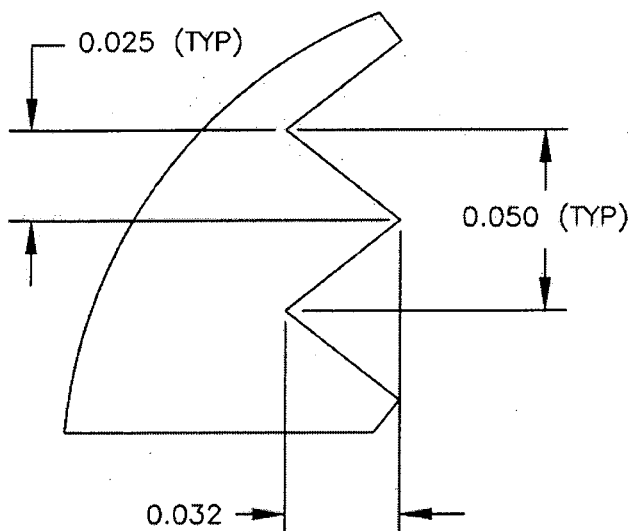
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**DETAIL A:**  
**SLOT DETAIL**  
SCALE 2:1  
VIEW ROTATED



**SECTION**  
**C-C**

**DETAIL B:**  
**RIDGE DETAIL**  
PARTIAL SECTION  
SCALE 1:20



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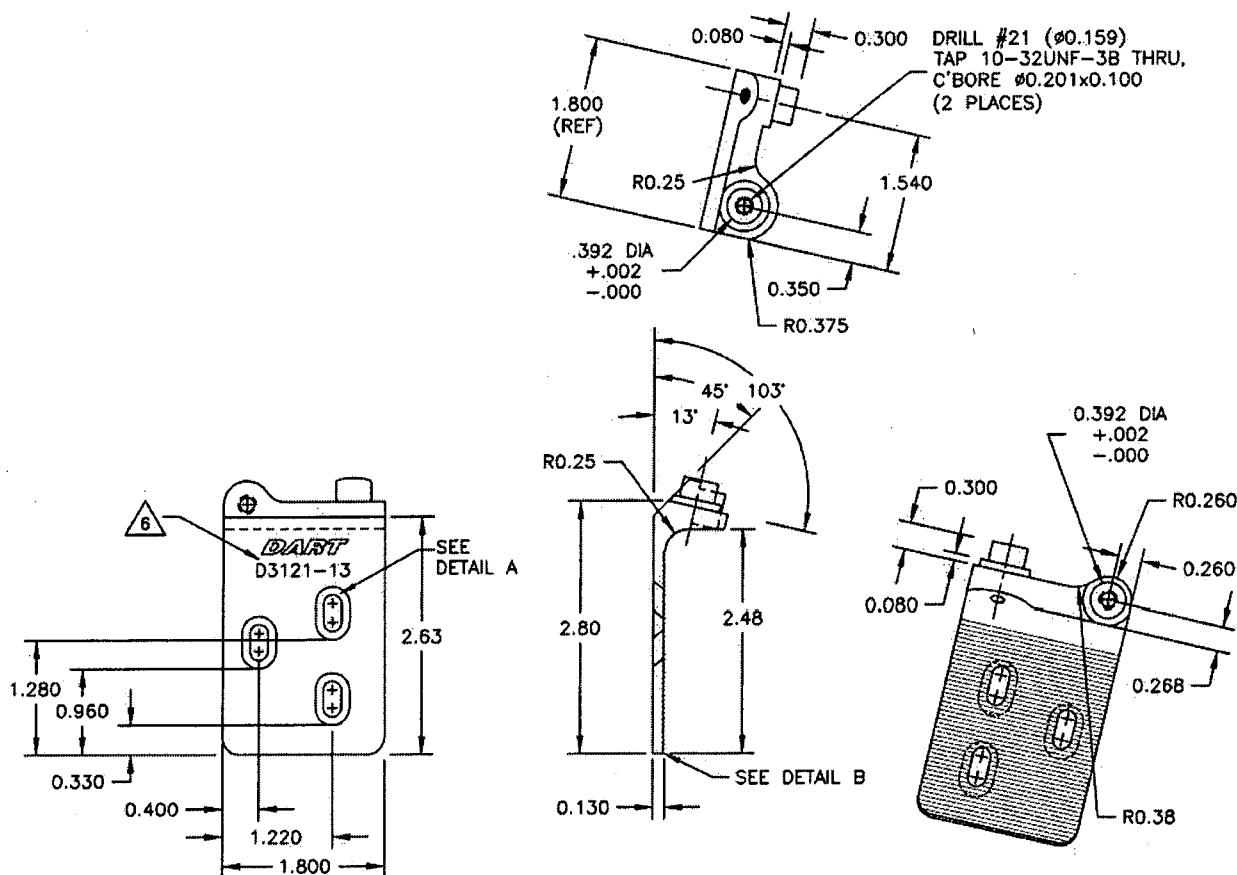
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| DATE<br>04.02.18 |               | TITLE<br>BRACKET ASSEMBLY                         | SCALE<br>1:2            |



**D3121-13 BRACKET (SHOWN)**  
**D3121-14 BRACKET (OPPOSITE)**

- 1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)  
MIN ULTIMATE TENSILE STRENGTH = 150 ksi  
MIN YIELD TENSILE STRENGTH = 100 ksi
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) ENGRAVE DART P/N & LOGO AS SHOWN
- 6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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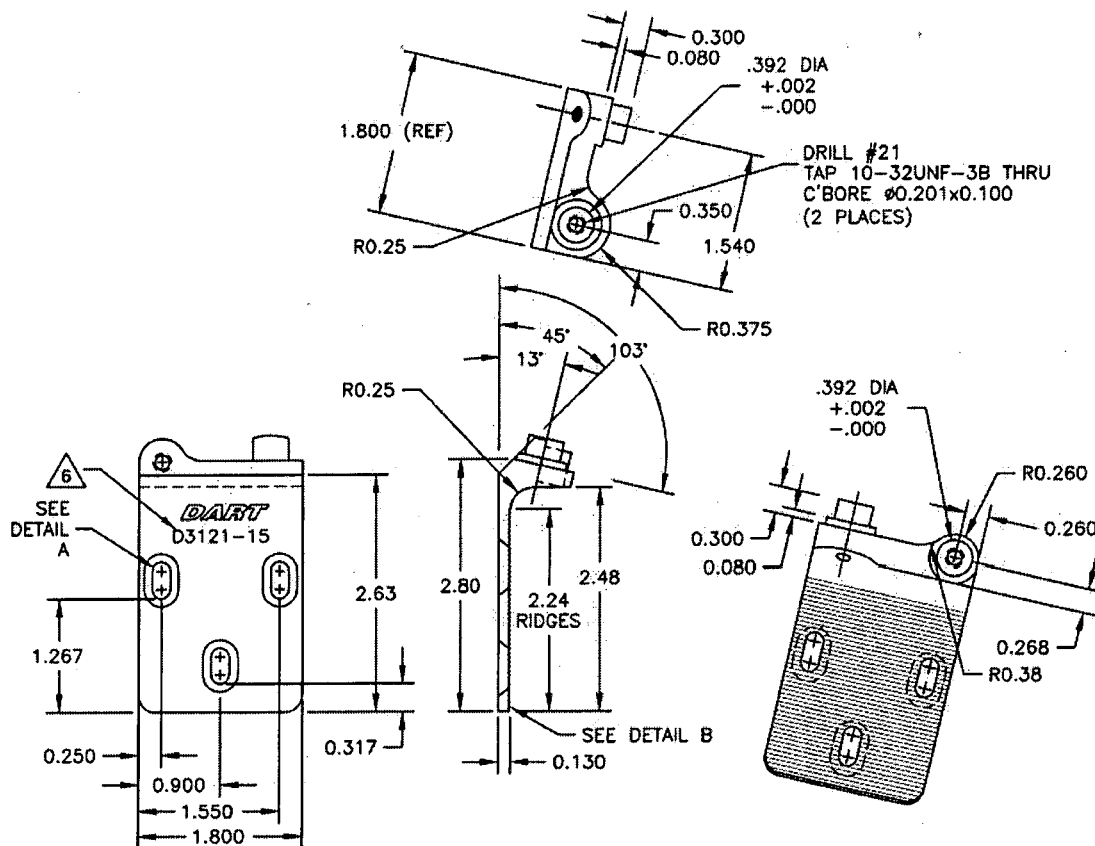
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| DATE<br>04.02.18 |                | TITLE<br>BRACKET ASSEMBLY                         | SCALE<br>1:2            |



#### D3121-15 BRACKET (SHOWN)

#### D3121-16 BRACKET (OPPOSITE)

- 1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)  
MIN ULTIMATE TENSILE = 150 ksi  
MIN YIELD TENSILE = 100 ksi
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) ENGRAVE DART P/N AND LOGO AS SHOWN
- 6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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NO. 25556B

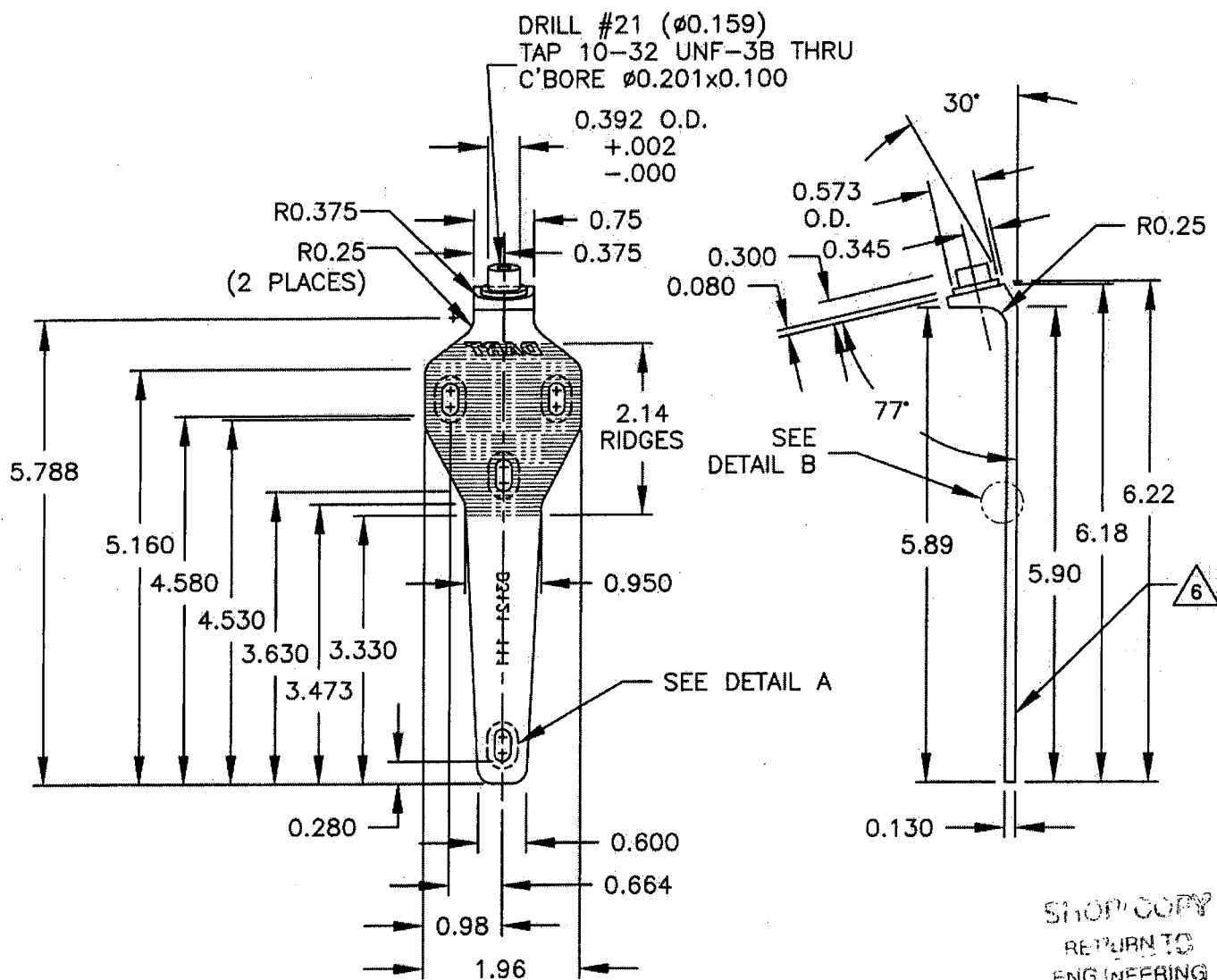
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| DATE<br>04.02.18 |                | TITLE<br>BRACKET ASSEMBLY                         | SCALE<br>1:2            |



#### D3121-111 BRACKET

- 1) REPLACES PREMIER P/N B32-23001-11
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)  
MIN ULTIMATE TENSILE = 150 ksi  
MIN YIELD TENSILE = 100 ksi
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN
- 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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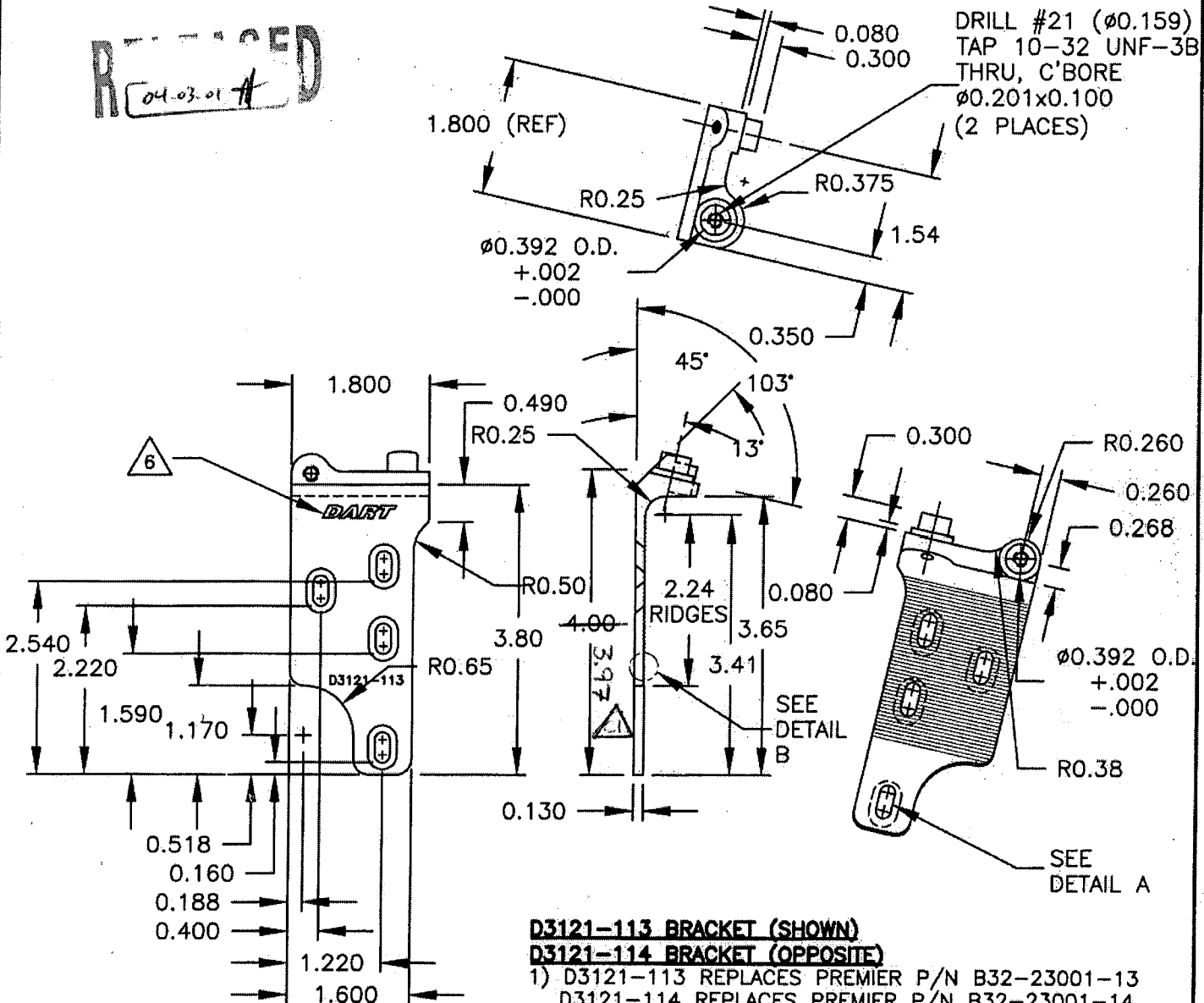
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|                            |                             |  |                         |
|----------------------------|-----------------------------|--|-------------------------|
| DESIGN <i>[Signature]</i>  | DRAWN BY <i>[Signature]</i> | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA |                         |
| CHECKED <i>[Signature]</i> | APPROVED <i>[Signature]</i> | DRAWING NO.<br>D3121                                     | REV. C<br>SHEET 8 OF 10 |
| DATE<br>04.02.18           |                             | TITLE<br>BRACKET ASSEMBLY                                | SCALE<br>1:2            |

**REPLACED**  
04.03.01 *[Signature]*

**D3121-113 BRACKET (SHOWN)****D3121-114 BRACKET (OPPOSITE)**

- 1) D3121-113 REPLACES PREMIER P/N B32-23001-13  
D3121-114 REPLACES PREMIER P/N B32-23001-14
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643  
(REF DART SPEC. M17-4-B)  
MIN ULTIMATE TENSILE STRENGTH = 150 ksi  
MIN YIELD TENSILE STRENGTH = 100 ksi
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN
- 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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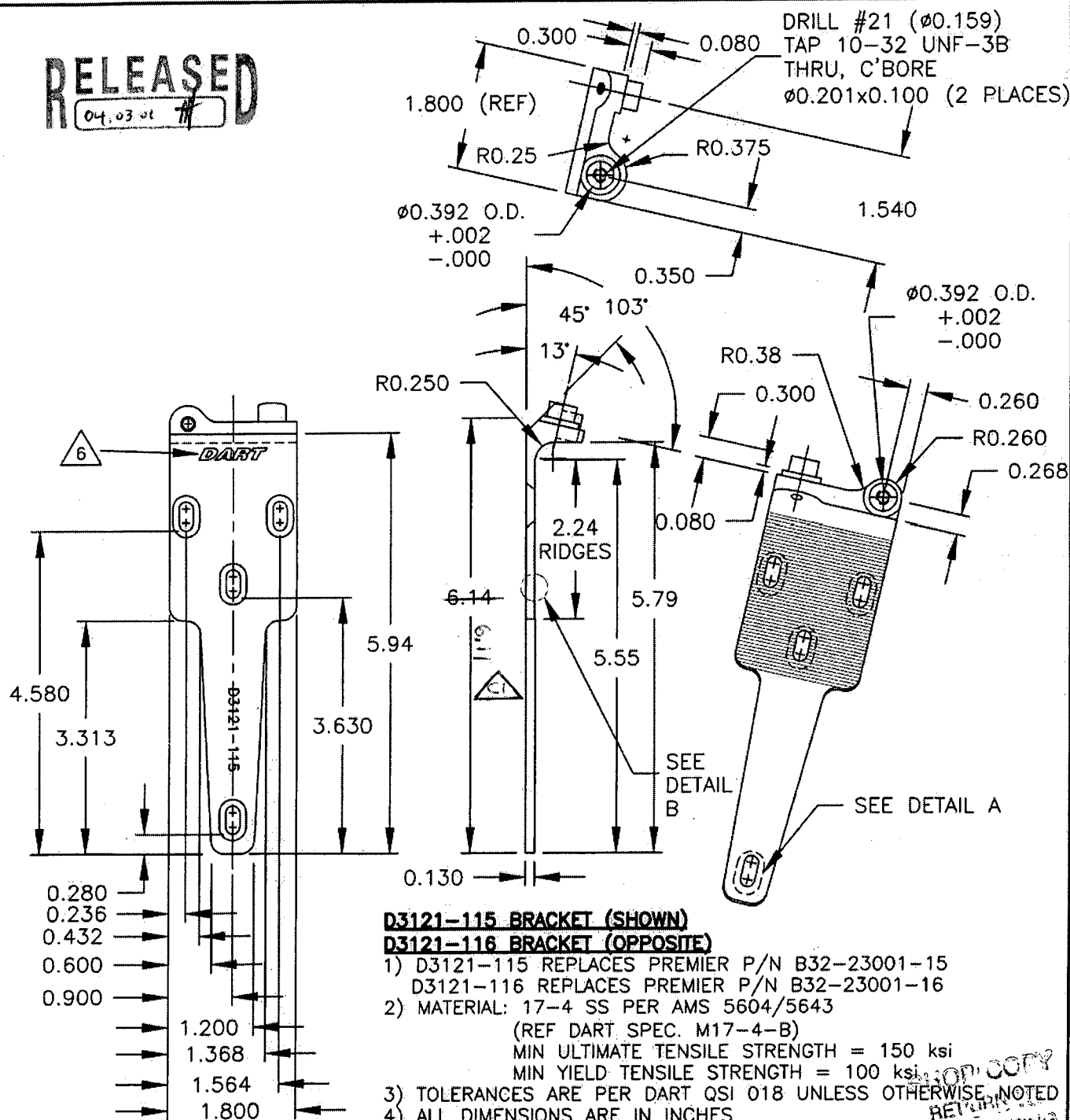
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28356B



|                        |                         |   |                         |
|------------------------|-------------------------|---|-------------------------|
| DESIGN<br>[Signature]  | DRAWN BY<br>[Signature] | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA |                         |
| CHECKED<br>[Signature] | APPROVED<br>[Signature] | DRAWING NO.<br>D3121                              | REV. C<br>SHEET 9 OF 10 |
| DATE<br>04.02.18       |                         | TITLE<br>BRACKET ASSEMBLY                         | SCALE<br>1:2            |

RELEASED  
04.03.01



**D3121-115 BRACKET (SHOWN)**  
**D3121-116 BRACKET (OPPOSITE)**

- 1) D3121-115 REPLACES PREMIER P/N B32-23001-15  
D3121-116 REPLACES PREMIER P/N B32-23001-16
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643  
(REF DART SPEC. M17-4-B)  
MIN ULTIMATE TENSILE STRENGTH = 150 ksi  
MIN YIELD TENSILE STRENGTH = 100 ksi
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE SPECIFIED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN
- 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005 IN

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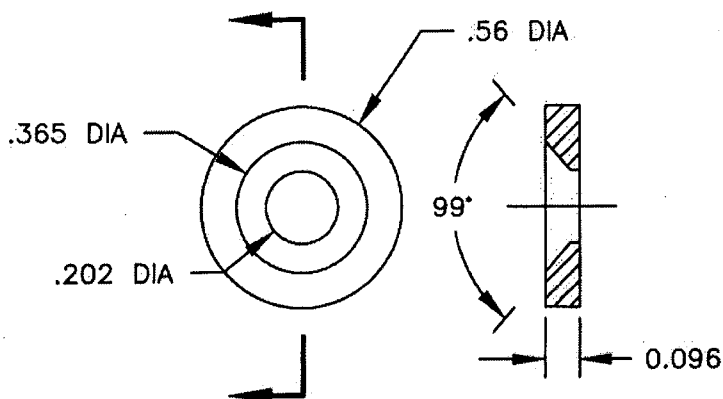
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150 ksi  
0 ksi  
OTHERWISE NOTED  
RETURNED  
ENGINEERING  
CONTROLLED  
SUBJECT TO AMEN  
WITHOUT NO

25556B

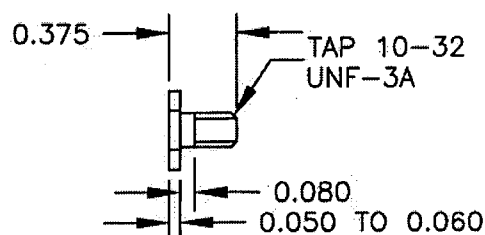


|          |          |                             |                |
|----------|----------|-----------------------------|----------------|
| DESIGN   | DRAWN BY | DART AEROSPACE LTD          |                |
|          |          | HAWKESBURY, ONTARIO, CANADA |                |
| CHECKED  | APPROVED | DRAWING NO.                 | REV. C         |
|          |          | D3121                       | SHEET 10 OF 10 |
| DATE     |          | TITLE                       | SCALE          |
| 04.02.17 |          | BRACKET ASSEMBLY            | 1:1            |



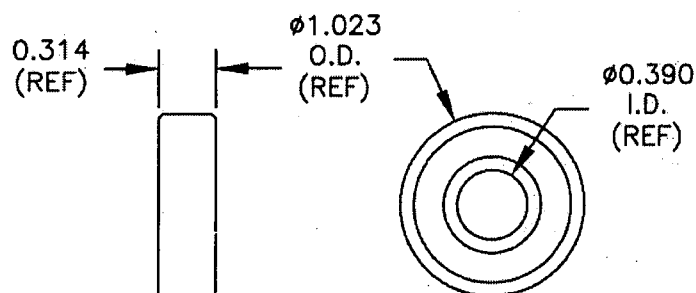
**D3121-17 WASHER (SCALE 2:1)**

- 1) REPLACES PREMIER P/N B32-23001-17
- 2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



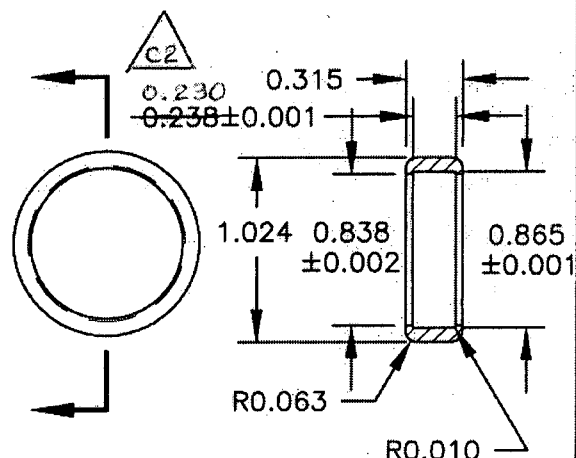
**D3121-21 BOLT (SCALE 1:1)**

- 1) MATERIAL: AISI 303 SS HEX, ANNEALED (REF DART SPEC. M303H0.500)
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



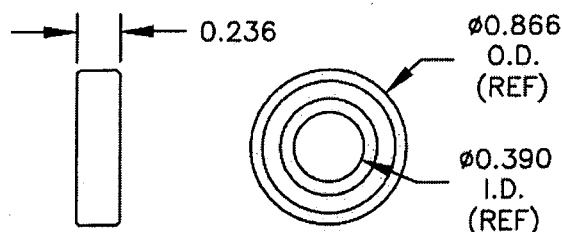
**D3121-19 BEARING (SCALE 1:1)**

- 1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM FAFNIR P/N 9100KDD
- 2) ALL DIMENSIONS ARE IN INCHES



**D3121-25 CAP (SCALE 1:1)**

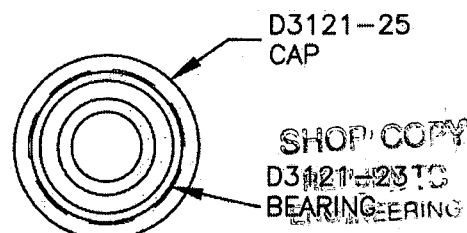
- 1) MATERIAL: DELRIN ROD, 1.25 (REF DART SPEC. M-DELRIN-R1.250)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES



**D3121-23 BEARING (SCALE 1:1)**

- 1) POSSIBLE SUPPLIER: SKF P/N 61900-2Z OR KML P/N 6900-2Z
- 2) ALL DIMENSIONS ARE IN INCHES

RELEASED  
04.03.01



**D3121-241 BEARING ASSEMBLY (SCALE 1:1)**

SUBJECT TO AMENDMENT

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WITHOUT NO

WORK ON

NO 28556 B

Description: Bracket

Part Number: 3121-11J

Inspection Dwg:

Rev:

Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST



First Article



Prototype

| Drawing Dimension | Tolerance                                    | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|-------------------|--|------------------|--------|--------|----------------------|----------|
| 1.800             | $\pm .020$                                   | 1.803            | /      |        |                      |          |
| R.250             |  | R.250            | /      |        |                      |          |
| $\emptyset .392$  | $\begin{matrix} +.002 \\ -.000 \end{matrix}$ | $\emptyset .393$ | /      |        |                      |          |
| R.375             |  | R.375            | /      |        |                      |          |
| .300              | $\pm .010$                                   | .300             | /      |        |                      |          |
| .080              | $\pm .010$                                   | .080             | /      |        |                      |          |
| 1.54              | $\pm .030$                                   | 1.549            | /      |        |                      |          |
| 2.540             |  | 2.540            | /      |        |                      |          |
| 2.220             |  | 2.220            | /      |        |                      |          |
| 1.590             |  | 1.589            | /      |        |                      |          |
| .160              |  | .159             | /      |        |                      |          |
| .400              |  | .395             | /      |        |                      |          |
| 1.220             |  | 1.216            | /      |        |                      |          |
| 1.600             |  | 1.604            | /      |        |                      |          |
| 3.80              | $\pm .030$                                   | 3.803            | /      |        |                      |          |
| .490              |  | .480             | /      |        |                      |          |
| .130              |  | .128             | /      |        |                      |          |
| 3.97              |  | 3.967            | /      |        |                      |          |
| R.25              |  | R.25             | /      |        |                      |          |
| 45°               |  | 45°              | /      |        |                      |          |
| 2.24              | $\pm .030$                                   | 2.220            | /      |        |                      |          |

Measured by:

SA

Audited by:

BG

Prototype Approval:

Date:

06.02.16

Date:

06.02.17

Date:

Rev

Date

Change

Revised by

Approved

A

New Issue

KJ/RF

